

# C GALACTOSE

Chemid

GALACTOSE

ubiquitous

Yes

\*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Plant	Part	Low PPM	High PPM	StdDev Reference
<i>Abelmoschus esculentus</i>	Fruit	--	4800	Wealth of India.
<i>Achillea millefolium</i>	Plant	--	--	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Achyranthes aspera</i>	Plant	--	--	--
<i>Aesculus hippocastanum</i>	Pericarp	--	--	Jim Duke's personal files.
<i>Aesculus hippocastanum</i>	Seed	--	--	--
<i>Agave americana</i>	Plant	--	--	--
<i>Alisma plantago-aquatica</i>	Plant	--	--	--
<i>Allium ampeloprasum</i>	Plant	--	--	--
<i>Allium sativum</i> var. <i>sativum</i>	Bulb	--	--	Wealth of India.
<i>Allium schoenoprasum</i>	Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Aloe vera	Plant	--	--	--	
Aloe vera	Leaf	--	--	--	
Anacardium occidentale	Resin, Exudate, Sap	--	--	--	
Anastatica hierochuntica	Fruit	--	--	--	
Anogeissus latifolia	Gum	--	--	--	
Apium graveolens	Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.	
Arundo donax	Stem	--	--	--	
Beta vulgaris	Root	--	--	--	
Beta vulgaris	Plant	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
Borago officinalis	Plant	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
Boswellia sacra	Latex Exudate	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.	
Boswellia serrata	Resin, Exudate, Sap	--	--	Sabinsa: A series of well documented proprietary PR booklets, e.g.Sabinsa Corps. 1998. Bronchial Asthma - Its etiology and control with traditional herbal extracts. Sabinsa Corporation. Piscataway, NJ. 49 pp.	
Calendula officinalis	Flower	--	--	--	
Capsicum annuum	Fruit	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
Capsicum frutescens	Fruit	--	--	--	

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Carica papaya</i>	Bark	--	--		Jim Duke's personal files.
<i>Carum carvi</i>	Seed	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
<i>Citrus sinensis</i>	Fruit	--	--	--	
<i>Colocasia esculenta</i>	Root	35200	94100	1	--
<i>Commiphora myrrha</i>	Resin, Exudate, Sap	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
<i>Commiphora myrrha</i>	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Cuscuta reflexa</i>	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Cycas revoluta</i>	Stem	--	--		--
<i>Cydonia oblonga</i>	Seed	--	--		--
<i>Datura stramonium</i>	Leaf	--	--		--
<i>Daucus carota</i>	Root	--	--		--
<i>Dianthus barbatus</i>	Shoot	--	--		--
<i>Eleutherococcus senticosus</i>	Root	--	--		--
<i>Euphrasia officinalis</i>	Plant	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
<i>Ferula assa-foetida</i>	Gum	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Ficus carica</i>	Leaf	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
<i>Ginkgo biloba</i>	Wood	--	--		Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of <i>Glycyrrhiza-glabra</i> . <i>Nippon Gogeikagaku Kaishi</i> 61(9): 1119-1122.
<i>Gleditsia triacanthos</i>	Seed	--	--	--	
<i>Harpagophytum procumbens</i> Root	Root	--	3600	-1	--
<i>Harpagophytum procumbens</i> Plant	Plant	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp.
<i>Helianthus annuus</i>	Flower	--	--	--	
<i>Hibiscus sabdariffa</i>	Flower	--	--	--	
<i>Hippophae rhamnoides</i>	Fruit	--	--		List, P.H. and Horhammer, L., <i>Hager's Handbuch der Pharmazeutischen Praxis</i> , Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Hydrangea paniculata</i>	Bark	--	--	--	
<i>Jatropha curcas</i>	Fruit	--	--	--	
<i>Lawsonia inermis</i>	Leaf	--	--	--	
<i>Lycopus europeus</i>	Plant	--	--		List, P.H. and Horhammer, L., <i>Hager's Handbuch der Pharmazeutischen Praxis</i> , Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Matricaria recutita</i>	Plant	--	--	--	
<i>Matricaria recutita</i>	Flower	--	150000		List, P.H. and Horhammer, L., <i>Hager's Handbuch der Pharmazeutischen Praxis</i> , Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Medicago sativa</i>	Plant	--	--		Leung, A. Y. and Foster, S. 1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Mirabilis jalapa</i>	Root	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Musa x paradisiaca</i>	Fruit	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
<i>Nicotiana tabacum</i>	Leaf	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Ocimum gratissimum</i>	Root	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Oenanthe aquatica</i>	Fruit	--	--		--
<i>Olea europaea</i>	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Opuntia ficus-indica</i>	Gum	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
<i>Opuntia ficus-indica</i>	Fruit	--	--		--
<i>Panax ginseng</i>	Root	--	--		--
<i>Panax quinquefolius</i>	Plant	--	--		--
<i>Panax quinquefolius</i>	Root	--	--		--
<i>Phoenix dactylifera</i>	Fruit	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Phytelephas macrocarpa</i>	Seed	9950	9950	1	--
<i>Pinus mugo</i>	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Pinus sylvestris</i>	Leaf	30	30	-1	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Piscidia piscipula</i>	Plant	--	--	--	
<i>Plantago ovata</i>	Seed	--	--	--	
<i>Polygala senega</i>	Root	--	--	--	
<i>Portulaca oleracea</i>	Plant	--	--	--	
<i>Pteridium aquilinum</i>	Plant	--	--	--	
<i>Quillaja saponaria</i>	Bark	--	--	--	
<i>Rumex crispus</i>	Leaf	--	--	--	
<i>Salix alba</i>	Wood	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Senna obtusifolia</i>	Seed	4920	4920	-1	--
<i>Serenoa repens</i>	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Sesamum indicum</i>	Seed	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Solanum tuberosum</i>	Plant	--	--	--	
<i>Sterculia urens</i>	Gum	--	--	--	
<i>Strychnos nux-vomica</i>	Seed	--	--	--	
<i>Tamarindus indica</i>	Fruit	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Terminalia bellirica</i>	Seed	--	--		Singh, P., Sharma, S. 1997. Triterpenoid Constituents of the Seeds of <i>Diospyros melanoxylon</i> , <i>Tecomella undulata</i> and <i>Terminalia bellirica</i> . <i>J. Indian Chem. Soc.</i> 74 6: 504-505.
<i>Terminalia bellirica</i>	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Tetrapanax papyrifera</i>	Pith	--	--		--
<i>Teucrium chamaedrys</i>	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Teucrium montanum</i>	Leaf	3000	3000	1	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Teucrium polium</i>	Plant	--	--		Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
<i>Tussilago farfara</i>	Flower	--	--		--
<i>Tussilago farfara</i>	Leaf	--	--		--
<i>Urtica dioica</i>	Leaf	--	--		Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin.
<i>Urtica dioica</i>	Root	--	--		Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin.
<i>Vigna radiata</i>	Seed	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Viola tricolor</i>	Plant	--	--		--
<i>Vitis vinifera</i>	Fruit	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Zea mays	Plant	--	--	--	